







FR CABLE

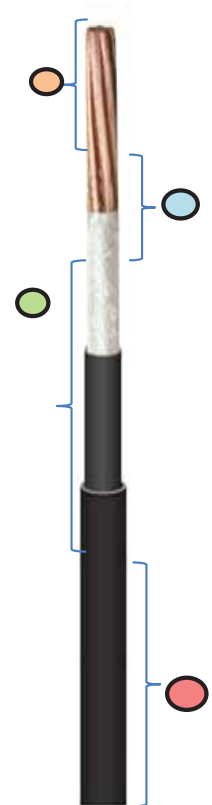
BS 6387

Single core fire resistant cables with insulation and sheath



-  Copper Conductor : Plain annealed stranded class 2 conductor to IEC 60228
-  Primary Insulation : Mica Glass tape
-  Secondary Insulation : Extruded XLPE/XL-LSZH compound
-  Outer Sheath : LSZH compound

CHARACTERISTICS

General	FR CABLE cables are designed for laying in conduit or on trays where fire resistance is of paramount importance
Voltage Grade	600/1000 V
Fire Resistance	C-W-Z test as per BS 6387 for small size and IEC 60331-21 for Large size which can not fit in a conduit cable comply 60331-21 fire test at increased temp. of 950 ° C which is higher than that spacificed by the standard
Acid gas emission	Less than 0.5% when tested to IEC 60754
Low smoke emission	As per IEC 61034
Cable Operating temperature	Maximum 90°C
Short circuit temperature	Maximum 250°C
Bending radius	6 x Cable diameter



CORE IDENTIFICATIONS

STANDARD :	SHEATH COLOUR :
	
Black (Other colours as per request)	Black (Other colours as per request)



TECHNICAL DATA

BS 6387

Technical data for ADCABLE fire resistance Single Core Sheathed Cables with stranded copper conductors
600/1000 V

Nominal conductor area	Insulation thickness	Outer sheath thickness	Approximate overall diameter	Maximum conductor resistance at 20 C	Current rating (1Φ AC) Clipped direct	Current rating (3Φ AC) In Air	Voltage Drop (1Φ AC)	Voltage Drop (3Φ AC) In trefoil
mm ²	mm	mm	mm	Ohm/km	Amp	Amp	m/V/A/m	m/V/A/m
1.5	0.60	1.10	4.80	12.1	25	-	31.0	27
2.5	0.70	1.10	5.60	7.41	34	-	19.0	16
4	0.70	1.10	6.15	4.61	46	-	12.0	10
6	0.70	1.10	6.70	3.08	59	-	7.86	6.81
10	0.70	1.10	7.40	1.83	81	-	4.67	4.05
16	0.70	1.10	8.20	1.15	109	-	2.94	2.55
25	0.90	1.10	9.80	0.727	143	135	1.86	1.61
35	0.90	1.10	10.70	0.524	176	169	1.35	1.17
50	1.00	1.10	12.10	0.387	228	207	1.00	0.87
70	1.10	1.10	13.80	0.268	293	268	0.70	0.61
95	1.10	1.10	16.10	0.193	355	328	0.52	0.45
120	1.20	1.10	17.10	0.153	413	383	0.42	0.37
150	1.40	1.20	19.20	0.124	476	444	0.36	0.31
185	1.60	1.20	21.20	0.0991	545	510	0.30	0.26
240	1.70	1.20	23.70	0.0754	644	607	0.25	0.22
300	1.80	1.20	26.10	0.0601	743	703	0.22	0.19
400	2.00	1.20	31.00	0.047	868	823	0.20	0.17
500	-	-	34.60	0.0366	990	946	0.18	0.16
630	-	-	39.40	0.0283	1130	1088	0.17	0.15

Current rating based on installation "enclosed in conduit on a wall or in trunking" in line with BS 7671 (IEE Wiring Regulations)

Laying condition: 30°C ambient temperature & 90°C operating temperature. For other ambient temperatures appropriate rating factors should be applied.

TEMPERATURE RATING FACTORS

Ambient Temperature in °C	35	40	45	50	55	60
Rating factor	0.96	0.91	0.87	0.82	0.76	0.71